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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/823,153		04/13/2004	Picheng Huang	I69.12-0622	4570
164	7590	11/28/2006	•	EXAMINER	
KINNEY		•	KIM, PAUL D		
THE KINN 312 SOUT		ANGE BUILDINC STREET	ART UNIT	PAPER NUMBER	
MINNEAP	OLIS, M	IN 55415-1002	3729		
				DATE MAILED: 11/28/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

MT

	Application No.	Applicant(s)					
Office Action Comme	10/823,153	HUANG ET AL.					
Office Action Summary	Examiner	Art Unit					
	Paul D. Kim	3729					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status .							
1) Responsive to communication(s) filed on 18 Se	eptember 2006.						
2a) This action is FINAL . 2b) This							
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.					
Disposition of Claims							
4) ☐ Claim(s) 1-40 is/are pending in the application. 4a) Of the above claim(s) 1-6 is/are withdrawn f 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 7-40 are subject to restriction and/or e		. : .					
Application Papers							
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the orange Replacement drawing sheet(s) including the correction of the orange replacement or declaration is objected to by the Example 11).	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).					
Priority under 35 U.S.C. § 119	•						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priorical application from the International Bureau * See the attached detailed Office action for a list of the certified copies.	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage					
Attachment(s)							
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te					

Application/Control Number: 10/823,153

Art Unit: 3729

DETAILED ACTION

This office action is a response to the restriction requirement filed on 9/18/2006.

Response to the Restriction Requirement

- 1. Applicant's election of Group II, claims 7-40, in the reply filed on 9/18/2006 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).
- 2. Claims 1-6 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 9/18/2006.
- 3. Upon further consideration, Group II contains claims directed to the following patentably distinct species:

Species A, drawn to Figs. 2A-2G for claims 13-21 and 30-36.

Species B, drawn to Figs. 3A-3D for claims 13-15, 22-26, 30-32 and 37-40.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 7 and 27 are generic claims.

Application/Control Number: 10/823,153 Page 3

Art Unit: 3729

If applicant elects Species A, then

Species AA, drawn to the determination of when the stop layer is reached is further based in part as a function of a motor current of a chemical-mechanical polishing apparatus for claims 13, 19, 30 and 34.

Species AB, drawn to the determination of when the stop layer is reached is further based in part as a function of a change in surface optical reflectivity for claims 14, 20, 31 and 35.

Species AC, drawn to the determination of when the stop layer is reached is further based in part as a function of an induced eddy current for claims 15, 21, 32 and 36.

If applicant elects Species B, then

Species BA, drawn to the determination of when the stop layer is reached is further based in part as a function of a motor current of a chemical-mechanical polishing apparatus for claims 13, 24, 30 and 38.

Species BB, drawn to the determination of when the stop layer is reached is further based in part as a function of a change in surface optical reflectivity for claims 14, 25, 31 and 39.

Species BC, drawn to the determination of when the stop layer is reached is further based in part as a function of an induced eddy current for claims 15, 26, 32 and 40.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

MPEP § 809.02(a).

4. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions

Application/Control Number: 10/823,153 Page 5

Art Unit: 3729

unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Paul D. Kim whose telephone number is 571-272-4565. The examiner can normally be reached on Monday-Thursday between 6:00 AM to 2:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on 571-272-4690. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/823,153 Page 6

Art Unit: 3729

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Paul D Kim

Primary Examiner

Art Unit 3729